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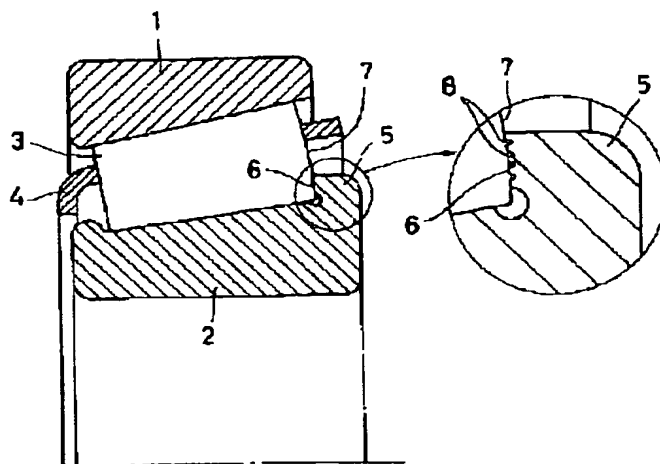
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APPLICANT : KOYO SEIKO CO LTD;

INVENTOR : ASAI YASUO;

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TITLE : ROLLER BEARING



ABSTRACT : PURPOSE: To make wear and seizure or binding controllable as far as possible by maintaining an oil film in a sliding contact part between a roller guideway of a collar part and an end face of a roller, in a state of being so thickened.

CONSTITUTION: In a tapered roller bearing, where a radius of curvature in a tapered roller guideway 6 of a collar part 5 of an inner race 2 is set to be larger than that of a large end face 7 of a tapered roller 3, and a sliding contact part of this tapered roller 3 to the collar part 5 of the inner race 2 is set to a point contact, plural pieces of minute recesses 8 being smaller than a contact zone with the larger end face 7 of the tapered roller 3 are installed in this tapered roller guideway 6 of the inner race 2 in a state of making each independent, for example, in the dotted form. With this constitution, in this sliding contact part of the tapered roller 3 to the collar part 5, a thick oil film is apt to be formed by way of a lubricant collected in the minute recess part 8, and simultaneously pressure acting on the oil film to be formed in this contact zone is prevented from leaking, so the oil film thickness remains unchanged.

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